

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 101723,123
Source: ITWO
Date Processed by STIC: 10/26/04

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IFWO

RAW SEQUENCE LISTING

DATE: 10/26/2004

PATENT APPLICATION: US/10/723,123

TIME: 10:48:06

Input Set : A:\Sequence Listing 1998-407-FF-SQ.txt
 Output Set: N:\CRF4\10262004\J723123.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

C--> 7 (i) APPLICANT: Akzo Nobel N.V.

W--> 15 (ii) TITLE OF INVENTION: Coccidiosis vaccines

17 (iii) NUMBER OF SEQUENCES: 41

W--> 8 (B) STREET: Velperweg 76

9 (C) CITY: Arnhem

10 (E) COUNTRY: The Netherlands

C--> 11 (F) ZIP: 6824 BM

C--> 19 (v) COMPUTER READABLE FORM:

20 (A) MEDIUM TYPE: Floppy disk

21 (B) COMPUTER: IBM PC compatible

22 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

23 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)

C--> 0 (vi) CURRENT APPLICATION DATA:

C--> 0 (A) APPLICATION NUMBER: US/10/723,123

C--> 0 (B) FILING DATE: 26-Nov-2003

C--> 0 (ix) TELECOMMUNICATION INFORMATION:

C--> 12 (A) TELEPHONE: 0412 666379

C--> 13 (B) TELEFAX: 0412 650592

26 (2) INFORMATION FOR SEQ ID NO: 1:

28 (i) SEQUENCE CHARACTERISTICS:

29 (A) LENGTH: 214 amino acids

30 (B) TYPE: amino acid

31 (C) STRANDEDNESS: single

32 (D) TOPOLOGY: linear

34 (ii) MOLECULE TYPE: protein

36 (v) FRAGMENT TYPE: internal

41 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

43 Met Pro Phe Glu Leu Pro Pro Leu Pro Tyr Pro Met Asp Ala Leu Glu

44 1 5 10 15

46 Pro Tyr Ile Ser Lys Glu Thr Leu Glu Tyr His Tyr Gly Lys His His

47 20 25 30

49 Ala Ala Tyr Val Asn Asn Leu Asn Arg Leu Val Glu Gly Lys Pro Glu

50 35 40 45

52 Ala Ser Lys Ser Leu Glu Glu Ile Ile Lys Thr Ser Ser Gly Ser Val

53 50 55 60

55 Leu Asn Asn Ala Gly Gln Ala Trp Asn His Thr Phe Tyr Trp Lys Ser

56 65 70 75 80

58 Met Arg Pro Ala Ser Ala Gly Gly Pro Pro Gly Ala Pro Gly Gly

59 85 90 95

61 Pro Pro Gly Ala Pro Gly Ala Pro Leu Arg Glu Glu Leu Glu Ser Ala

62 100 105 110

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64 Phe Gly Gly Val Glu Lys Phe Arg Glu Ala Ala Ala Ala Ala
 65 115 120 125
 67 Ala His Phe Gly Ser Gly Trp Ala Trp Leu Cys Phe Cys Lys Lys Ser
 68 130 135 140
 70 Arg Ser Leu Phe Leu Leu Gln Thr His Asp Gly Ala Thr Pro Phe Arg
 71 145 150 155 160
 73 Asp Asn Pro Asn Cys Ala Pro Leu Leu Thr Cys Asp Leu Trp Glu His
 74 165 170 175
 76 Ala Tyr Tyr Ile Asp Arg Arg Asn Asp Arg Lys Ser Tyr Leu Asp Ala
 77 180 185 190
 79 Trp Trp Ser Val Val Asn Trp Asp Phe Ala Asn Glu Asn Leu Lys Lys
 80 195 200 205
 82 Ala Met Gln Gly Ser Asp
 83 210
 86 (2) INFORMATION FOR SEQ ID NO: 2:
 88 (i) SEQUENCE CHARACTERISTICS:
 89 (A) LENGTH: 13 amino acids
 90 (B) TYPE: amino acid
 91 (C) STRANDEDNESS: single
 92 (D) TOPOLOGY: linear
 94 (ii) MOLECULE TYPE: protein
 96 (v) FRAGMENT TYPE: internal
 101 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 103 Leu Gly Pro Leu Ala Leu Pro Leu Leu Ala Asp Val Arg
 104 1 5 10
 107 (2) INFORMATION FOR SEQ ID NO: 3:
 109 (i) SEQUENCE CHARACTERISTICS:
 110 (A) LENGTH: 223 amino acids
 111 (B) TYPE: amino acid
 112 (C) STRANDEDNESS: single
 113 (D) TOPOLOGY: linear
 115 (ii) MOLECULE TYPE: protein
 117 (v) FRAGMENT TYPE: internal
 122 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
 124 Met Pro Leu Asn Leu Gly Asp Ser Phe Pro Asp Phe Gln Ala Glu Ala
 125 1 5 10 15
 127 Leu Gly Ala Glu His Phe Arg Leu His Glu Tyr Leu Gly Asp Ser Trp
 128 20 25 30
 130 Gly Val Met Phe Ser His Pro Asn Asp Phe Thr Pro Val Cys Thr Thr
 131 35 40 45
 133 Glu Leu Ala Glu Ala Val Lys Leu Gln Asp Ser Phe Thr Lys Lys Asn
 134 50 55 60
 136 Cys Lys Leu Val Gly Phe Ser Cys Asn Asp Leu Gln Ser His Arg Glu
 137 65 70 75 80
 139 Trp Ala Lys Asp Ile Met Ala Tyr Ala Gly Arg Ser Gly Asn Leu Pro
 140 85 90 95
 142 Phe Pro Leu Val Cys Asp Pro Asn Arg Glu Leu Ala Ala Ser Leu Gly
 143 100 105 110
 145 Ile Met Asp Pro Ala Glu Lys Asp Lys Lys Gly Leu Pro Leu Thr Cys

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146 115 120 125
 148 Arg Cys Val Phe Phe Ile Ser Pro Glu Lys Lys Leu Ala Ala Ser Ile
 149 130 135 140
 151 Leu Tyr Pro Ala Thr Thr Gly Arg Asn Phe Ala Glu Ile Leu Arg Val
 152 145 150 155 160
 154 Leu Asp Ser Leu Gln Leu Thr Ala Lys Phe Pro Val Ala Thr Pro Val
 155 165 170 175
 157 Asp Trp Thr Ala Gly Ala Lys Cys Cys Val Val Pro Asn Leu Ala Ala
 158 180 185 190
 160 Glu Glu Ala Gln Arg Leu Leu Pro Lys Gly His Glu Ala Leu Gln Leu
 161 195 200 205
 163 Pro Ser Gly Lys Pro Tyr Leu Arg Leu Thr Pro Asp Pro Arg Gly
 164 210 215 220
 167 (2) INFORMATION FOR SEQ ID NO: 4:
 169 (i) SEQUENCE CHARACTERISTICS:
 170 (A) LENGTH: 15 amino acids
 171 (B) TYPE: amino acid
 172 (C) STRANDEDNESS: single
 173 (D) TOPOLOGY: linear
 175 (ii) MOLECULE TYPE: protein
 177 (v) FRAGMENT TYPE: internal
 182 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
 184 Met Ser Pro Ser Pro Ala Gly Val Ala Glu Tyr Leu Ala Ser Leu
 185 1 5 10 15
 187 (2) INFORMATION FOR SEQ ID NO: 5:
 189 (i) SEQUENCE CHARACTERISTICS:
 190 (A) LENGTH: 16 amino acids
 191 (B) TYPE: amino acid
 192 (C) STRANDEDNESS: single
 193 (D) TOPOLOGY: linear
 195 (ii) MOLECULE TYPE: protein
 197 (v) FRAGMENT TYPE: internal
 202 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
 204 Asn His Ala Glu Phe Asp Pro Ser Gln Thr Glu Val Val Val Phe Pro
 205 1 5 10 15
 208 (2) INFORMATION FOR SEQ ID NO: 6:
 210 (i) SEQUENCE CHARACTERISTICS:
 211 (A) LENGTH: 20 amino acids
 212 (B) TYPE: amino acid
 213 (C) STRANDEDNESS: single
 214 (D) TOPOLOGY: linear
 216 (ii) MOLECULE TYPE: protein
 218 (v) FRAGMENT TYPE: internal
 223 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
 225 Val Asp Ser Phe Thr Pro Ser Val Gly Cys Val Phe Ala Gly Met Pro
 226 1 5 10 15
 228 Ala Asp Phe Arg
 229 20
 231 (2) INFORMATION FOR SEQ ID NO: 7:

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233 (i) SEQUENCE CHARACTERISTICS:
 234 (A) LENGTH: 17 base pairs
 235 (B) TYPE: nucleic acid
 236 (C) STRANDEDNESS: double
 237 (D) TOPOLOGY: linear
 239 (ii) MOLECULE TYPE: DNA (genomic)
 244 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
 246 GTAAATTGGG ACTTCGC 17
 248 (2) INFORMATION FOR SEQ ID NO: 8:
 250 (i) SEQUENCE CHARACTERISTICS:
 251 (A) LENGTH: 17 base pairs
 252 (B) TYPE: nucleic acid
 253 (C) STRANDEDNESS: double
 254 (D) TOPOLOGY: linear
 256 (ii) MOLECULE TYPE: DNA (genomic)
 261 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
 263 GTAAACTGGG ACTTCGC 17
 265 (2) INFORMATION FOR SEQ ID NO: 9:
 267 (i) SEQUENCE CHARACTERISTICS:
 268 (A) LENGTH: 17 base pairs
 269 (B) TYPE: nucleic acid
 270 (C) STRANDEDNESS: double
 271 (D) TOPOLOGY: linear
 273 (ii) MOLECULE TYPE: DNA (genomic)
 278 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
 280 GTAAATTGGG ACTTCGC 17
 282 (2) INFORMATION FOR SEQ ID NO: 10:
 284 (i) SEQUENCE CHARACTERISTICS:
 285 (A) LENGTH: 17 base pairs
 286 (B) TYPE: nucleic acid
 287 (C) STRANDEDNESS: double
 288 (D) TOPOLOGY: linear
 290 (ii) MOLECULE TYPE: DNA (genomic)
 295 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
 297 GTAAACTGGG ACTTCGC 17
 299 (2) INFORMATION FOR SEQ ID NO: 11:
 301 (i) SEQUENCE CHARACTERISTICS:
 302 (A) LENGTH: 17 base pairs
 303 (B) TYPE: nucleic acid
 304 (C) STRANDEDNESS: double
 305 (D) TOPOLOGY: linear
 307 (ii) MOLECULE TYPE: DNA (genomic)
 312 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
 314 GTTAATTGGG ACTTCGC 17
 316 (2) INFORMATION FOR SEQ ID NO: 12:
 318 (i) SEQUENCE CHARACTERISTICS:
 319 (A) LENGTH: 17 base pairs
 320 (B) TYPE: nucleic acid
 321 (C) STRANDEDNESS: double

RAW SEQUENCE LISTING DATE: 10/26/2004
 PATENT APPLICATION: US/10/723,123 TIME: 10:48:06

Input Set : A:\Sequence Listing 1998-407-FF-SQ.txt
 Output Set: N:\CRF4\10262004\J723123.raw

322 (D) TOPOLOGY: linear
 324 (ii) MOLECULE TYPE: DNA (genomic)
 329 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12: 17
 331 GTTAACGTGGG ACTTCGC
 333 (2) INFORMATION FOR SEQ ID NO: 13:
 335 (i) SEQUENCE CHARACTERISTICS:
 336 (A) LENGTH: 17 base pairs
 337 (B) TYPE: nucleic acid
 338 (C) STRANDEDNESS: double
 339 (D) TOPOLOGY: linear
 341 (ii) MOLECULE TYPE: DNA (genomic)
 346 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13: 17
 348 GTTAATTGGG ACTTCGC
 350 (2) INFORMATION FOR SEQ ID NO: 14:
 352 (i) SEQUENCE CHARACTERISTICS:
 353 (A) LENGTH: 17 base pairs
 354 (B) TYPE: nucleic acid
 355 (C) STRANDEDNESS: double
 356 (D) TOPOLOGY: linear
 358 (ii) MOLECULE TYPE: DNA (genomic)
 363 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14: 17
 365 GTTAACGTGGG ACTTCGC
 367 (2) INFORMATION FOR SEQ ID NO: 15:
 369 (i) SEQUENCE CHARACTERISTICS:
 370 (A) LENGTH: 17 base pairs
 371 (B) TYPE: nucleic acid
 372 (C) STRANDEDNESS: double
 373 (D) TOPOLOGY: linear
 375 (ii) MOLECULE TYPE: DNA (genomic)
 380 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15: 17
 382 GTGAATTGGG ACTTTGC
 384 (2) INFORMATION FOR SEQ ID NO: 16:
 386 (i) SEQUENCE CHARACTERISTICS:
 387 (A) LENGTH: 17 base pairs
 388 (B) TYPE: nucleic acid
 389 (C) STRANDEDNESS: double
 390 (D) TOPOLOGY: linear
 392 (ii) MOLECULE TYPE: DNA (genomic)
 397 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16: 17
 399 GTGAACGTGGG ACTTTGC
 401 (2) INFORMATION FOR SEQ ID NO: 17:
 403 (i) SEQUENCE CHARACTERISTICS:
 404 (A) LENGTH: 17 base pairs
 405 (B) TYPE: nucleic acid
 406 (C) STRANDEDNESS: double
 407 (D) TOPOLOGY: linear
 409 (ii) MOLECULE TYPE: DNA (genomic)
 414 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17: 17
 416 GTGAATTGGG ACTTTGC

VERIFICATION SUMMARY DATE: 10/26/2004
PATENT APPLICATION: US/10/723,123 TIME: 10:48:07

Input Set : A:\Sequence Listing 1998-407-FF-SQ.txt
Output Set: N:\CRF4\10262004\J723123.raw

L:7 M:220 C: Keyword misspelled or invalid format, [(i) APPLICANT:] of (1) line corrected
L:8 M:238 W: Alpha Fields not Ordered, Reordered [(B) STREET:] of (1)(iv)
L:11 M:220 C: Keyword misspelled or invalid format, [(F) ZIP:]
L:12 M:220 C: Keyword misspelled or invalid format, [(A) TELEPHONE:]
L:13 M:220 C: Keyword misspelled or invalid format, [(B) TELEFAX:]
L:15 M:238 W: Alpha Fields not Ordered, Reordered [(ii) TITLE OF INVENTION:] of (1)
L:19 M:220 C: Keyword misspelled or invalid format, [(v) COMPUTER READABLE FORM:]
L:0 M:247 C: Inserted Optional Header Field, [(ix) TELECOMMUNICATION INFORMATION:]
L:0 M:249 C: Inserted Mandatory Field, [(vi) CURRENT APPLICATION DATA:]
L:0 M:249 C: Inserted Mandatory Field, [(A) APPLICATION NUMBER:]
L:0 M:249 C: Inserted Mandatory Field, [(B) FILING DATE:]
L:790 M:111 C: (47) String data converted to upper case,
L:794 M:111 C: (47) String data converted to upper case,
L:798 M:111 C: (47) String data converted to upper case,
L:802 M:111 C: (47) String data converted to upper case,
L:806 M:111 C: (47) String data converted to upper case,
L:810 M:111 C: (47) String data converted to upper case,
L:814 M:111 C: (47) String data converted to upper case,
L:818 M:111 C: (47) String data converted to upper case,
L:822 M:111 C: (47) String data converted to upper case,
L:826 M:111 C: (47) String data converted to upper case,
L:830 M:111 C: (47) String data converted to upper case,
L:834 M:111 C: (47) String data converted to upper case,
L:838 M:111 C: (47) String data converted to upper case,
L:842 M:111 C: (47) String data converted to upper case,
L:844 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:39
L:846 M:111 C: (47) String data converted to upper case,
L:890 M:111 C: (47) String data converted to upper case,
L:894 M:111 C: (47) String data converted to upper case,
L:898 M:111 C: (47) String data converted to upper case,
L:902 M:111 C: (47) String data converted to upper case,
L:906 M:111 C: (47) String data converted to upper case,
L:910 M:111 C: (47) String data converted to upper case,
L:914 M:111 C: (47) String data converted to upper case,
L:918 M:111 C: (47) String data converted to upper case,
L:922 M:111 C: (47) String data converted to upper case,
L:926 M:111 C: (47) String data converted to upper case,
L:930 M:111 C: (47) String data converted to upper case,
L:934 M:111 C: (47) String data converted to upper case,
L:938 M:111 C: (47) String data converted to upper case,
L:942 M:111 C: (47) String data converted to upper case,